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CLAIMS

A stretchable composite material comprising:

- a) a first layer;
- b) a second layer;
- c) a plurality of elongated elastic members;
- d) the elastic members located between the first and second layers and being in contact with the first and second layers;
- e) regions of securement securing the elastic members, first and second layers; and
- f) the composite having a maximum elongation of at least about 85% of the elongation of an elastic member.
- 2. The composite material of claim 1 in which the elastic members are slightly out of parallel.
- 3. The composite material of claim 1 in which the elastic members are roughly parallel.
- 4. The composite material of claim 1 in which the plurality of elastic members is comprised of a single strand.
- 5. The composite material of claim 1 in which the regions of securement are approximately the same size and are spaced approximately equally apart from each other.
- 6. The composite material of claim 1 in which the maximum elongation of the composite is at least about 90% of the elongation of an elastic member.
- 7. The elastic composite material of claim 1 in which the maximum elongation of the composite is at least about 95% of the elongation of an elastic member.

- 8. The composite material of claim 1 further comprising at least one stiffened edge.
- 9. The composite material of claim 1 wherein the first layer further comprises a breathable material.
- 10. The composite material of claim 1 wherein the first layer further comprises a non-breathable material.
- 11. The composite material of claim 10 wherein the second layer further comprises a breathable material.
- 12. The composite material of claim 10 wherein the second layer further comprises a non-breathable material.
- 13. The composite material of claim 10 wherein the second layer further comprises a non-breathable material.
- 14. The composite material of claims 1, 9, or 10 wherein the first layer further comprises a water impervious material.
- 15. The composite material of claims 1, 9, or 10 wherein the first layer further comprises a water pervious material.
- 16. The composite material of claims 1, 11, or 12 wherein the second layer further comprises a water impervious material.
- 17. The composite material of claims 1, 11, or 12 wherein the second layer further comprises a water pervious material.
- 18. The composite material of claim 1 further comprising zones of attachment.
- 19. A stretchable elastic composite comprising a first layer, a second layer, and a plurality of elastic members; the composite further having a machine direction and a cross-machine direction; the length of the

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elastic members being roughly transverse to the machine direction; zones of attached elastics interspersed between zones of unattached elastics; the zones of attached elastics being roughly parallel to the machine direction of the composite; the zones of attached elastics extending across at least two of the elastic members; and the composite having pleats that are roughly parallel to the machine direction and extend across at least two of the elastic members.

- 20. The composite material of claim 19 wherein the first layer further comprises a breathable material.
- 21. The composite material of claim 19 wherein the first layer further comprises a non-breathable material.
- 22. The composite material of claim 20 wherein the second layer further comprises a breathable material.
- 23. The composite material of claim 21 wherein the second layer further comprises a non-breathable material.
- 24. The composite material of claim 19, 20, or 21 wherein the second layer further comprises a non-breathable material.
- 25. The composite material of claim 19, 20, or 21 wherein the first layer further comprises a water impervious material.
- 26. The composite material of claim 19, 20, or 21 wherein the first layer further comprises a water pervious material.
- 27. The composite material of claim 19, 22, or 23 wherein the second layer further comprises a water impervious material.
- 28. The composite material of claim 19, 22, or 23 wherein the second layer further comprises a water pervious material.

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- 29. The composite material of claim 19 in which the composite material at the zones of attached elastic exhibit no elasticity.
- 30. The composite materials of claim 19 in which the composite material at the zones of attached elastic exhibit minimal elasticity.
- 31. The composite materials of claim 19 in which the zones of attached elastic extend across the majority of the elastic members.
- 32. The composite materials of claim 19 in which the zones of attached elastic further comprise an adhesive.
- 33. The composite materials of claim 19 in which the pleats extend across a majority of the elastic members.
- 34. The composite material of claim 19, further having at least one stiffened edge.
- 35. A stretchable elastic composite comprising a first layer, and an elastic material; the composite further having a length and width; the elastic material further having a length and a width; the length of the elastic material being roughly transverse to the length of the composite; regions of securement interspersed across the width of the elastic composite and roughly parallel to the length of the composite; the regions of securement extending across the elastic material; the composite having pleats that are roughly parallel to the length of the composite and that extend across a majority of the elastic material; and the composite having a maximum elongation in the widthwise dimension of the composite of at least about 85% of the elongation of the elastic material.
- /36. The composite material of claim 35 in which the maximum elongation of the composite is at least about 90% of the elongation of the elastic material.

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- 37. The composite material of claim 35 in which the maximum elongation of the composite is at least about 95% of the elongation of the elastic material.
- 38. The composite material of claim 35 wherein the first layer further comprises a breathable material.
- 39. The composite material of claim 35 wherein the first layer further comprises a non-breathable material.
- 40. The composite material of claim 35, further comprising a second layer wherein the second layer further comprises a breathable material.
- 41. The composite material of claim 35, further comprising a second layer wherein the second layer further comprises a non-breathable material.
- 42. The composite material/of claim 38, further comprising a second layer wherein the second layer further comprises a non-breathable material.
- 43. The composite material of claim 35, 38, or 39 wherein the first layer further comprises a water impervious material.
- 44. The composite material of claim 35, 38, or 39 wherein the first layer further comprises a water pervious material.
- The composite material of claim 40, 41, or 42 wherein the second layer further comprises a water impervious material.
- 46. The composite material of claim 40, 41, or 42 wherein the second layer further comprises a water pervious material.
- 47. The composite material of claim 35 further comprising zones of attachment.

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A stretchable composite material comprising: a first layer, the first layer being a breathable material; a second layer, the second layer being a breathable material; at least two elastic members, the elastic members positioned in between the first and second layers; regions of securement securing the elastic members, the first layer and the second layer; the regions of securement further comprising attached zones; the attached zones extending traverse and across a majority of the elastic members.

- 49. The composite material of claim 48 further comprising a stiffened edge.
- 50. An article of apparel comprising the composite material of claims 1, 19, 35 or 48.